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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/747,957	12/31/2003	Hiromichi Yoshikawa	086142-0603	6957
	7590 02/14/200 LARDNER LLP	/2008 EXAMINER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/747,957	YOSHIKAWA, HIROMICHI				
		Examiner	Art Unit				
		GEORGE D. SPISICH	3616				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Poeriod for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 16 Ju	uly 2007 (Pre-Anneal Conf. Regu	est)				
•		action is non-final.	<u>esty</u> .				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٥,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
· ·		application					
•	Claim(s) <u>1,2,6-14 and 16</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed. 6) Claim(s) <u>1,2,6-14 and 16</u> is/are rejected.						
· ·	Claim(s) is/are objected to.						
-	Claim(s) are subject to restriction and/o	r election requirement					
ا ا	are subject to restriction and/o	r election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examine	er.					
10)	The drawing(s) filed on is/are: a)☐ acc	epted or b) \square objected to by the ${}^{ }$	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1,2, 6-14 and 16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Newly added language to independent claims 1 and 14 includes the limitation of a "fully" inflated condition. The original specification does not appear to disclose this relation and therefore, it is considered to new matter.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Saiguchi et al. (previously stated as Hiroaki et al.) (Figure 47) (USPUB 2001/0011810) provided in Applicant's IDS.

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Saiguchi et al. discloses an occupant protection system (shown in Fig. 47) which prevents submarining of an occupant seated in a seat of a vehicle and having an airbag (630) disposed between a seat cushion and a seat pan (shown in Figs. 4-5B) and extending longitudinally along the width of the seat, wherein the airbag is configured to inflate to thereby push up the front of the seat cushion from below and a bag enclosure (632A) extending longitudinally and enclosing an intermediate part of the airbag.

The bag enclosure encloses the airbag and is at the longitudinal center of the airbag. The perimeter of the enclosure (632A) is smaller than the perimeter of the airbag in an inflated condition. The unrestricted portions of the airbag extend to beyond the bag enclosure in a fully inflated condition and not enclosed by the bag enclosure. From page 16 of the specification, paragraphs [267] – [270], it is disclosed the purpose and operation of the bag enclosure (632A). The enclosure restrains the airbag in a fully inflated state. Some of the bag enclosure may rupture at the seam, and as a passenger impacts the airbag and the pressure is increased, the bag enclosure may rupture further. It is understood from this disclosure that the bag enclosure allows for and operates in a manner to allow the airbag to expand so as to have a larger perimeter in a fully inflated state than the bag enclosure.

The bag enclosure is connected to the seat pan (via mounting holes 46) to restrict forward motion of the airbag when inflated and the airbag is positioned in a

recess (42a) in the seat pan wherein the recess extends along the width of the seat.

There is a step surface (portion of the recess) extending along a front rim of the recess to further prevent the airbag from moving forward when an occupant applies pressure to the airbag.

The relative position of the airbag(s) lifts the front of the seat and to at least some degree would also lift a side of the vehicle seat or at least a front/side corner of the vehicle as in Applicant's invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saiguchi et al. (previously stated as Hiroaki et al.) (Figure 47) (USPUB 2001/0011810).

Saiguchi et al. has been discussed in the prior rejection. However, the size of the bag enclosure does not appear to be disclosed or shown as "substantially the entire airbag", "from forty to about one hundred percent" or "about fifty to about ninety percent" of the longitudinal length of the airbag.

The relative size of the bag enclosure (632A) is a dimension that one of ordinary skill in the art would be able to optimize or change. Since Saiguchi et al. discloses a bag enclosure having a relatively broad width, it would have been obvious to one of

ordinary skill in the art at the time the invention was made to broaden the bag enclosure to provide increased bag restraint. To increase the size to about forty or about fifty or slightly over fifty percent of the longitudinal length of the airbag would be within the scope of one of ordinary skill in the art to vary the effective restraint of the airbag. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

With respect to the terms "substantially the entire" (claim 4), and "about one hundred percent" (claim 6), Examiner points out that the term "substantially" is met by being a majority (or about 51%) of a dimension. Furthermore, Examiner states that Applicant has not disclosed a bag enclosure that encloses the entire airbag or one that is "about one hundred percent". Also, it is likely that these limitations, if positively claimed, would not allow the airbag to have a larger perimeter than the bag enclosure in a fully inflated state and therefore conflict with limitations in the claim from which they depend.

Claims 1, 2, 8-12,14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art shown in Figure 4 (AAPA) in view of Saiguchi et al. (previously stated as Hiroaki et al.) (Figure 47) (USPUB 2001/0011810).

AAPA discloses an occupant protection system which prevents submarining of an occupant seated in a seat of a vehicle and having an airbag (44) disposed between a seat cushion (42) and a seat pan (40) and extending longitudinally along the width of the seat, wherein the airbag is configured to inflate to thereby push up the front of the seat cushion from below.

AAPA discloses a gas generator (46) disposed in the airbag and fastened to the seat pan by a fastener (extension beneath the seat pan) passing through the airbag.

The airbag is "sandwiched" between the gas generator and the seat pan.

The relative position of the airbag of AAPA lifts the front of the seat and to at least some degree would also lift a side of the vehicle seat or at least a front/side corner of the vehicle as in Applicant's invention.

However, AAPA does not disclose a bag enclosure for enclosing the airbag.

Saiguchi et al. has been discussed in a prior rejection and discloses a bag enclosure (632A) for retraining and containing the airbag.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the airbag arrangement of AAPA by providing a bag enclosure as taught by Saiguchi et al. so as to provide an airbag arrangement that more efficiently restrains movement and absorbs impact energy. In this combined airbag arrangement, the bag enclosure of Hiroaki et al. would be connected to the seat pan since the entire arrangement is connected to the seat pan.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Saiguchi et al. as applied to claims 1,2,8-12,14 and 16 above, and further in view of Stanger et al. (USPN 5,979,929).

AAPA in view of Saiguchi et al. has been presented in the prior rejection but does not disclose a cover (in addition to a bag enclosure) for covering the airbag, wherein the cover is configured to be broken or "deformed" when the airbag inflates.

Stanger et al. discloses an airbag arrangement having a cover (30) that is broken or "deformed" when the airbag inflates. This cover is considered a dust cover and seals and protects the airbag arrangement when installed in a vehicle. The teaching of this reference is to provide a "cover" for an airbag arrangement and the particulars of the airbag use is not of importance as a cover is taught by Stanger et al. for any airbag arrangement.

It would have been obvious to one or ordinary skill in the art at the time the invention was made provide a cover as taught by Stanger et al. in the arrangement of AAPA in view of Saiguchi et al. so as to provide a protected and sealed cavity for the airbag while allowing still allowing the proper inflation of the airbag.

Response to Arguments

Applicant's arguments filed January 25, 2007 have been fully considered but they are not persuasive.

With respect to Applicant's argument that the bag enclosure of Saiguchi would not have a smaller perimeter than the airbag when the airbag is in a "fully inflated state", Examiner disagrees and maintains the rejection. Examiner reads the Saiguchi invention to be "fully inflated", at which point the restraint/bag enclosure would likely rupture to a degree yet not fully (as shown in Fig. 47) and would still restrain an intermediate portion of the bag such that the perimeter of the bag enclosure would be smaller that the outer portions of the bag in the "fully inflated state". Most likely, as the occupant impacts the bag (and as disclosed by Saiguchi), the restraint/bag enclosure would rupture further

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(yet possibly still not completely, depending on the forces), due to the increased pressure in the bag. Saiguchi reads on the limitation that the bag enclosure is smaller in perimeter when the bag is in the fully inflated state. The term "fully inflated state" merely means when the bag is inflated to it's fullest extent. Should the enclosure fully rupture after impact with the occupant does not prevent the restraint from still being considered to read on Applicant's claimed invention "in a fully inflated state" of the airbag.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEORGE D. SPISICH whose telephone number is

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(571)272-6676. The examiner can normally be reached on Monday-Friday 9:00 to 6:30 except alt. Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Dickson can be reached on (571) 272-6669. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

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George D. Spisich

February 11, 2008

/Lesley D. Morris/

Supervisory Patent Examiner, Art Unit 3611